SABIC® HDPE M80064S

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE M80064S is an UV stabilized, high density polyethylene injection moulding grade with a narrow molecular weight distribution. It is typically used for injection moulding applications where rigidity, toughness and warp resistance are required.
Typical applications.
SABIC® HDPE M80064S is typically used for the manufacture of injection moulded cases, crates, trays, industrial pails and other similar items.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Additive	UV Stabilizer		
Features	Good Toughness Good UV Resistance High Density Medium Rigidity Narrow Molecular Weight Distribution Warp Resistant		
Uses	Crates Industrial Applications Pails		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.964	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	8.0	g/10 min	
190°C/5.0 kg	22	g/10 min	
Environmental Stress-Cracking Resistance [1] (60°C, 3.00 mm, Rhodacal-DS10, Compression Molded)	40.0	hr	Internal Method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, Compression Molded)	65		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (2.00 mm, Compression Molded)	1450	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	32.0	MPa	
Break, 2.00 mm, Compression Molded	15.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 200	%	ISO 527-2/1BA/50

Flexural Modulus (2.00 mm, Compression Molded)	1700	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	32.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C, Compression Molded)	4.0	kJ/m^2	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	95.0	°C	ISO 75-2/B
Vicat Softening Temperature	129	°C	ISO 306/A
Melting Temperature (DSC)	135	°C	ISO 11357-3
Enthalpy Change	229	J/g	ISO 11357-3
Injection	Nominal Value	Unit	
Processing (Melt) Temp	230 to 275	°C	
Mold Temperature	32.0 to 38.0	°C	
Injection Pressure	69.0 to 89.0	MPa	
NOTE			
1.	2 MPa		

Recommended distributors for this material

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